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10/804,689	03/19/2004	Harold E. Mattice	IGT1P210/P-864A 9156	
22434 BEYER WEAV	7590 04/25/200 /ER LLP	EXAMINER		
P.O. BOX 7025		DHILLON, MANJOT K		
OAKLAND, CA 94612-0250			ART UNIT	PAPER NUMBER
			3714	
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Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

	Applica	ation No.	Applicant(s)	
Office Action Summary		,689	MATTICE ET AL.	
		ner	Art Unit	
	MANJO	T K. DHILLON	3714	
The MAILING DATE of this con Period for Reply	nmunication appears on	the cover sheet with the	e correspondence ac	dress
A SHORTENED STATUTORY PERIOD WHICHEVER IS LONGER, FROM T - Extensions of time may be available under the proafter SIX (6) MONTHS from the mailing date of the - If NO period for reply is specified above, the maxi - Failure to reply within the set or extended period for any reply received by the Office later than three nearned patent term adjustment. See 37 CFR 1.70	HE MAILING DATE OF visions of 37 CFR 1.136(a). In no s communication. mum statutory period will apply and reply will, by statute, cause the conths after the mailing date of this	THIS COMMUNICATION event, however, may a reply be still expire SIX (6) MONTHS from application to become ABANDO	ON. It timely filed om the mailing date of this one of the control of the contr	
Status				
Responsive to communication(2a) This action is FINAL . Since this application is in conclused in accordance with the	2b)⊡ This action is lition for allowance exce	pt for formal matters, p		e merits is
Disposition of Claims				
4) Claim(s) 38-45 is/are pending i 4a) Of the above claim(s) 5) Claim(s) is/are allowed. 6) Claim(s) 38-45 is/are rejected. 7) Claim(s) is/are objected 8) Claim(s) are subject to r Application Papers 9) The specification is objected to 10) The drawing(s) filed on 19 Marc	_ is/are withdrawn from to. estriction and/or election by the Examiner. sh 2004 is/are: a)⊠ acc	n requirement. epted or b)⊡ objected	•	r.
Replacement drawing sheet(s) inc	-		-	• •
Priority under 35 U.S.C. § 119	ted to by the Examiner.	Note the attached Office	CE ACTION OF TORM F	10-132.
12) Acknowledgment is made of a calcalcalcalcalcalcalcalcalcalcalcalcalc	of: iority documents have b iority documents have b pies of the priority docu mational Bureau (PCT F	een received. een received in Applica ments have been rece Rule 17.2(a)).	ation No ived in this National	Stage
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Rev 3) Information Disclosure Statement(s) (PTO/S Paper No(s)/Mail Date		4) Interview Summa Paper No(s)/Mail 5) Notice of Informa 6) Other:		

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DETAILED ACTION

Response to Amendment

This office action is in response to applicant's response filed on 2/12/08.
 Applicant cancels claims 1-37, amends claim 38, and responds to rejections. Claims

38-45 are pending.

Claim Rejections - 35 USC § 102

2. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(a) the invention was known or used by others in this country, or patented or described in a printed publication in this or a foreign country, before the invention thereof by the applicant for a patent.

Claim Rejections - 35 USC § 103

- 3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 4. The factual inquiries set forth in *Graham* **v.** *John Deere Co.*, 383 U.S. 1, 148 USPQ 459 (1966), that are applied for establishing a background for determining obviousness under 35 U.S.C. 103(a) are summarized as follows:
 - 1. Determining the scope and contents of the prior art.
 - 2. Ascertaining the differences between the prior art and the claims at issue.
 - 3. Resolving the level of ordinary skill in the pertinent art.

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4. Considering objective evidence present in the application indicating obviousness or nonobviousness.

5. Claims 38-45 are rejected under 35 U.S.C. 102(b) as anticipated by or, in the alternative, under 35 U.S.C. 103(a) as obvious over Bertram et al. (US 6476798 B1).

Concerning claim 38, Bertram et al. teaches a gaming apparatus/method, comprising: a display unit; a value input device; a touch screen unit including [column 2, lines 8-11]: a sinusoid generator coupled to a first electrode of a touch screen, the sinusoid generator adapted to generate a first sinusoidal signal having a frequency [column 4, lines 24-27, and fig. 4]; a first sensor coupled to the first electrode to generate a first sensed signal indicative of a signal flowing from the first electrode [column 4, lines 24-27]; a first multiplier having a first input coupled to the first sensor [column 4, lines 43-46], and an output; a first low pass filter having an input and an output [fig. 4, items 426 and 440], the input of the first low pass filter coupled to the output of the first multiplier [fig. 4]. A band pass filter can be a low pass filter by passing all the low frequencies and not allowing any high frequencies though, therefore a band pass filter anticipates, or is an obvious variant of, a low pass filter.

Bertram et al. teaches a first amplitude calculator having a first input, a second input, and an output, wherein the first input of the first amplitude calculator is coupled to the output of the first low pass filter [column 6, line 52- column 8, line 25]. Bertram et al. teaches a touch position calculator having a first input coupled to the output of the amplitude calculator, wherein the touch position calculator is adapted to generate an estimate of a touch position based on the output of the first amplitude calculator [column 5, lines 40-60; column 8, lines 36-50].

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Bertram et al. teaches a main controller operatively coupled to the display unit, the value input device, and the touch screen unit, the main controller comprising a main processor and a main memory operatively coupled to the main processor, the main controller being programmed to receive value input data via the value input device [figs. 6a and 6b].

Bertram et al. teaches the main controller being programmed to cause the display unit to generate a first game display relating to one of the following games: poker, blackjack, slots, keno or bingo, the main controller being programmed to receive player input data via the touch screen unit [column 2, lines 8-11], the main controller being programmed to determine a value payout associated with an outcome of the game. Using the touch screen with an electronic slot machine encompasses games such as: poker, blackjack, slots, keno, bingo or any other game which all would determine payout according to the game played. This is something that at the time of the applicant's invention was well known in the art.

Bertram et al. teaches a second input coupled to receive a second sinusoidal signal having the frequency and a phase; a second multiplier having a first input coupled to the first sensor, a second input coupled to receive a third sinusoidal signal having the frequency and a phase 90 degrees out of phase with the phase of the second sinusoidal signal, and an output; a second low pass filter having an input and an output, the input of the second low pass filter coupled to the output of the second multiplier; and wherein the second input of the first amplitude calculator is coupled to

the output of the second low pass filter [column 4, lines 59-62 and fig. 5a and all citations listed above].

Concerning claim 39, Bertram et al. teaches the first amplitude calculator comprises: a first analog-to-digital converter (ADC) having an input [column 5, lines 48-51] and an output [column 5, lines 52-56], wherein the input of the first ADC is coupled to the output of the first low pass filter; and a second ADC having an input and an output, wherein the input of the second ADC is coupled to the output of the second low pass filter [column 5, lines 46-51]. A band pass filter can be a low pass filter by passing all the low frequencies and not allowing any high frequencies though, therefore a band pass filter anticipates, or is an obvious variant of, a low pass filter.

Concerning claims 40, 41, 43 and 44, Bertram et al. teaches the touch screen unit comprises a touch screen controller operatively coupled to the first analog-to-digital converter (ADC), the second ADC, and the main controller [column 6, lines 18-51], the touch screen controller [fig. 4, element 446] comprising a touch screen processor [fig. **4, element 450]** and a touch screen memory operatively coupled to the touch screen processor [fig. 6b, elements 622, 624, 626], the touch screen-controller and/or the main controller being programmed to calculate an estimate of an amplitude of the signal flowing from the first electrode based on outputs of the first ADC and the second ADC [column 6, lines 52+]. Bertram et al. teaches the ADC to convert from all filters, therefore, one ADC completes the job of having multiple ADCs in a circuit. Multiplying parts in a circuit that essentially performs the same function as a circuit without multiple parts was well known to someone skilled in the art at the time of the invention.

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Concerning claim 42, Bertram et al. teaches the touch screen controller is programmed to calculate a touch position estimate based on the estimate of the amplitude of the signal flowing from the first electrode; wherein the touch screen controller is programmed to provide the touch position estimate to the main controller [column 6, lines 15-51].

Concerning claim 45, Bertram et al. teaches an analog-to-digital converter (ADC) having an input and an output [column 5, lines 52-56], wherein the input of the ADC is coupled to the first sensor [column 5, lines 43-46], and wherein the output of the ADC is coupled to the first input of the first multiplier and to the first input of the second multiplier [column 5, lines 20-60].

Response to Arguments

6. Applicant's arguments filed 2/12/08 have been fully considered but they are not persuasive. Applicant argues that Bertram et al. does not teach: a second multiplier having a first input coupled to a first sensor, a second input coupled to receive a third sinusoidal signal having the frequency, and a phase 90 degrees out of phase with the phase of a second sinusoidal signal provided to a first multiplier having a first input coupled to a first sensor and a second input coupled to receive the second sinusoidal signal. However, Examiner disagrees. Bertram et al. teaches a sinusoid generator coupled to a first electrode of a touch screen, the sinusoid generator adapted to generate a first sinusoidal signal having a frequency [column 4, lines 24-27, and fig. 4]; a first sensor coupled to the first electrode to generate a first sensed signal indicative

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of a signal flowing from the first electrode [column 4, lines 24-27]; a first multiplier having a first input coupled to the first sensor [column 4, lines 43-46], and an output; a first low pass filter having an input and an output [fig. 4, items 426 and 440], the input of the first low pass filter coupled to the output of the first multiplier [fig. 4]. A band pass filter can be a low pass filter by passing all the low frequencies and

4]. A band pass filter can be a low pass filter by passing all the low frequencies and not allowing any high frequencies though, therefore a band pass filter anticipates, or is an obvious variant of, a low pass filter. Furthermore, figure 5a shows several multipliers and several inputs. Furthermore, Bertram teaches similar circuitry is used to provide signals to (and sample signals at) the other electrodes 102b, 102c, 102d, although the phase of the four signals are preferably offset 90 degrees [column 4, lines 59-62].

Conclusion

7. **THIS ACTION IS MADE FINAL.** Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

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Any inquiry concerning this communication or earlier communications from the examiner should be directed to MANJOT K. DHILLON whose telephone number is (571)270-1297. The examiner can normally be reached on Mon. - Thurs., 7 AM - 6 PM, EST.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Bob Pezzuto can be reached on (571) 272-6996. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Robert E Pezzuto/ Supervisory Patent Examiner, Art Unit 3714

Robert E. Pezzuto Examiner Art Unit 3714

/M. K. D./ Examiner, Art Unit 3714